## INTERNATIONAL SEARCH REPORT

Exernational Application No PCT/CA 03/01209

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 B22D11/11 F27D23/04 B22D11/115 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 B22D F27D B01F Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the International search (name of data base and, where practical, search terms used) WPI Data, PAJ, EPO-Internal C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Citation of document, with Indication, where appropriate, of the relevant passages 1,4,6,8 EP 0 165 793 A (CO STEEL INT) Α 27 December 1985 (1985-12-27) abstract; figures 1-3,11 page 5, line 18 -page 6, line 20 page 9, line 23 -page 10, line 16 1-3 US 5 863 455 A (SEGAL VLADIMIR) Α 26 January 1999 (1999-01-26) cited in the application claims 1-11,16,20 US 5 898 353 A (CADER TAHIR ET AL) Α 27 April 1999 (1999-04-27) cited in the application abstract; figure 1 Patent family members are listed in annex. Further documents are listed in the continuation of box C. Special categories of cited documents : "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention "E" earlier document but published on or after the International "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. O document referring to an oral disclosure, use, exhibition or other means \*P\* document published prior to the international filing date but later than the priority date claimed \*&\* document member of the same patent family Date of mailing of the international search report Date of the actual completion of the international search 19/04/2004 8 April 2004 Name and mailing ad" - ss of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nt, Fax: (+31–70) 340–3016 Mailliard, A

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C.(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 462 685 A (RAJ KULDIP ET AL) 31 October 1995 (1995-10-31) cited in the application abstract; figure 1	1
A	PATENT ABSTRACTS OF JAPAN vol. 006, no. 004 (M-106), 12 January 1982 (1982-01-12) & JP 56 128650 A (SUMITOMO METAL IND LTD;OTHERS: 01), 8 October 1981 (1981-10-08) abstract -& JP 56 128650 A (NISSIN ELECTRIC CO TTD) 8 October 1981 (1981-10-08) figures 1-3	1
A	PATENT ABSTRACTS OF JAPAN vol. 009, no. 094 (M-374), 24 April 1985 (1985-04-24) & JP 59 220265 A (KOBE SEIKOSHO KK), 11 December 1984 (1984-12-11) abstract	

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/CA 03/01209

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 0165793 A	27-12-1985	EP 0165793 A2 JP 61014054 A	27-12-1985 22-01-1986
US 5863455 A	26-01-1999	AU 8400998 A BR 9810887 A CA 2296379 A1 CN 1263516 T EP 1019336 A1 ID 28973 A JP 2001509635 T TR 20000076 T2 WO 9902467 A1 ZA 9806235 A	08-02-1999 26-09-2000 21-01-1999 16-08-2000 19-07-2000 19-07-2001 24-07-2001 22-05-2000 21-01-1999 02-02-1999
US 5898353 A	27-04-1999	NONE	
US 5462685 A	31-10-1995	NONE	
JP 56128650 A	08-10-1981	NONE	
JP 59220265 A	11-12-1984	JP 1501854 C JP 63047543 B	28-06-1989 22-09-1988